

(5-1997)
10 CFR 30, 32, 33
34, 35, 36, 39 and 40

APPLICATION FOR MATERIAL LICENSE

Estimated burden per response to comply with this information collection request: 7 hours. Submittal of the application is necessary to determine that the applicant is qualified and that adequate procedures exist to protect the public health and safety. Forward comments regarding burden estimate to the Information and Records Management Branch (T-6 F33), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, and to the Paperwork Reduction Project (3150-0120), Office of Management and Budget, Washington, DC 20503. NRC may not conduct or sponsor, and a person is not required to respond to, an information collection unless it displays a currently valid OMB control number.

INSTRUCTIONS: SEE THE APPROPRIATE LICENSE APPLICATION GUIDE FOR DETAILED INSTRUCTIONS FOR COMPLETING APPLICATION. SEND TWO COPIES OF THE ENTIRE COMPLETED APPLICATION TO THE NRC OFFICE SPECIFIED BELOW.

APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:

DIVISION OF INDUSTRIAL AND MEDICAL NUCLEAR SAFETY
OFFICE OF NUCLEAR MATERIALS SAFETY AND SAFEGUARDS
U.S. NUCLEAR REGULATORY COMMISSION
WASHINGTON, DC 20555-0001

ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS:

IF YOU ARE LOCATED IN:

CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, MAINE, MARYLAND,
MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, PENNSYLVANIA,
RHODE ISLAND, OR VERMONT, SEND APPLICATIONS TO:

LICENSING ASSISTANT SECTION
NUCLEAR MATERIALS SAFETY BRANCH
U.S. NUCLEAR REGULATORY COMMISSION, REGION I
475 ALLENDALE ROAD
KING OF PRUSSIA, PA 19406-1415

ALABAMA, FLORIDA, GEORGIA, KENTUCKY, MISSISSIPPI, NORTH CAROLINA, PUERTO
RICO, SOUTH CAROLINA, TENNESSEE, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA,
SEND APPLICATIONS TO:

ATLANTA FEDERAL CENTER
U. S. NUCLEAR REGULATORY COMMISSION, REGION II
81 FORSYTH STREET, S.W., SUITE 23T85
ATLANTA, GEORGIA 30303-3415

IF YOU ARE LOCATED IN:

ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN,
SEND APPLICATIONS TO:

MATERIALS LICENSING SECTION
U.S. NUCLEAR REGULATORY COMMISSION, REGION III
801 WARRENVILLE RD.
LISLE, IL 60532-4351

ALASKA, ARIZONA, ARKANSAS, CALIFORNIA, COLORADO, HAWAII, IDAHO, KANSAS,
LOUISIANA, MONTANA, NEBRASKA, NEVADA, NEW MEXICO, NORTH DAKOTA,
OKLAHOMA, OREGON, PACIFIC TRUST TERRITORIES, SOUTH DAKOTA, TEXAS, UTAH,
WASHINGTON, OR WYOMING, SEND APPLICATIONS TO:

NUCLEAR MATERIALS LICENSING SECTION
U.S. NUCLEAR REGULATORY COMMISSION, REGION IV
611 RYAN PLAZA DRIVE, SUITE 400
ARLINGTON, TX 76011-8064

PERSONS LOCATED IN AGREEMENT STATES SEND APPLICATIONS TO THE U.S. NUCLEAR REGULATORY COMMISSION ONLY IF THEY WISH TO POSSESS AND USE LICENSED MATERIAL IN STATES SUBJECT TO U.S. NUCLEAR REGULATORY COMMISSION JURISDICTIONS.

1. THIS IS AN APPLICATION FOR (Check appropriate item) <input type="checkbox"/> A. NEW LICENSE <input checked="" type="checkbox"/> B. AMENDMENT TO LICENSE NUMBER <u>32-23858-01E</u> <input type="checkbox"/> C. RENEWAL OF LICENSE NUMBER _____		2. NAME AND MAILING ADDRESS OF APPLICANT (Include Zip code) Walter Kidde Portable Equipment Inc. 1394 South Third Street Mebane N.C. 27302			
3. ADDRESS(ES) WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED Walter Kidde Portable Equipment Inc. 1394 South Third Street Mebane N.C. 27302		4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION Larry Ratzlaff TELEPHONE NUMBER 630-893-9967 ext 124			
SUBMIT ITEMS 5 THROUGH 11 ON 8-1/2 X 11" PAPER. THE TYPE AND SCOPE OF INFORMATION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE.					
5. RADIOACTIVE MATERIAL a. Element and mass number; b. chemical and/or physical form; and c. maximum amount which will be possessed at any one time NA		6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED Smoke Alarm			
7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING EXPERIENCE.		8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS.			
9. FACILITIES AND EQUIPMENT.		10. RADIATION SAFETY PROGRAM.			
11. WASTE MANAGEMENT.		12. LICENSEE FEES (See 10 CFR 170 and Section 170.31) FEE CATEGORY 3H & 9A AMOUNT 1610.00 ENCLOSED \$			
13. CERTIFICATION. (Must be completed by applicant) THE APPLICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE BINDING UPON THE APPLICANT. THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF OF THE APPLICANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PARTS 30, 32, 33, 34, 35, 36, 39 AND 40, AND THAT ALL INFORMATION CONTAINED HEREIN IS TRUE AND CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BELIEF. WARNING: 18 U.S.C. SECTION 1001 ACT OF JUNE 25, 1948 62 STAT. 749 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.					
CERTIFYING OFFICER - TYPED/PRINTED NAME AND TITLE Larry Ratzlaff Product Engineer		SIGNATURE DATE 6/10/98			
FOR NRC USE ONLY					
TYPE OF FEE	FEE LOG	FEE CATEGORY	AMOUNT RECEIVED	CHECK NUMBER	COMMENTS
			\$		
APPROVED BY				DATE	

9811230082 981109
PDR RC *
SSD PDR

**RADIOACTIVE MATERIALS SECTION
DIVISION OF RADIATION PROTECTION
N.C. DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
RADIOACTIVE MATERIALS LICENSE**

Pursuant to North Carolina Regulations for Protection Against Radiation and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, own, possess, transfer and export radioactive materials listed below; and use such radioactive material for the purpose(s) and at the place(s) designated below. This license is subject to all applicable rules and regulations hereafter in effect and to any conditions specified below.

Licensee Name: Walter Kidde Portable Equipment, Inc. Mailing Address: 1394 South Third Street Mebane, NC 27302 Physical Address: 1394 South Third Street Mebane, NC 27302		3. License No.: 001-1069-1 4. Expiration Date: May 31, 2002 5. Amendment No.: 3
Radioactive Material (Element and Mass No.) A. Americium-241 B. Plutonium-239 C. Plutonium-239	7. Chemical and/or Physical Form A. Foil Sources (NRD Model A-001, Amersham Model AMM; or EAD Model AMX 1100) B. Sealed Source (Eberline Model DNS16S) C. Sealed Source (Eberline Model DNS-1)	8. Maximum Amount of Radioactivity And/or Quantity of Radioactive Material which Licensee may Possess at any one time A. No single foil to exceed 1.0 microcurie B. 0.011 microCurie C. 0.0087 microCurie

9. Authorized Use:

- A. To be used in Kidde Safety Models SM01, 0805, 0905, 0906, 0908, 0914, 0915, 0916, 0918, 1225, 1235, 1255, 1275, and 1285 smoke detectors.

B & C. To be used for instrument calibration and operational checks.

Conditions

10. The authorized place of possession and storage is the licensee's address stated in Item No. 2b. above.
11. The licensee shall comply with the provisions of 15A NCAC 11 .1600, "Standards for Protection Against Radiation," and 15A NCAC 11 .1000, "Notices, Instructions, Reports and Inspections." (The North Carolina Regulations for Protection Against Radiation are contained in 15A NCAC 11.)
- 12A. Radioactive material shall be possessed and stored by, or under the supervision of, Michael D. Brown and Carl Tomeo.
- B. The Radiation Safety Officer for the activities authorized by this license shall be Michael D. Brown.
13. This license does not authorize distribution to persons exempted or licensed pursuant to United States Nuclear Regulatory Commission and/or Agreement State regulations.
14. The licensee shall annually review its Radiation Protection Program for content and implementation [Ref. 15A NCAC 11 .1603(c)]. Documentation of the Radiation Protection program reviews shall be retained for inspection by the agency [Ref. 15A NCAC 11 .1636].
15. Except as specifically provided otherwise by this license, the licensee shall possess and store radioactive material described in Items 6, 7 and 8 of this license in accordance with statements, representations and procedures contained in:

RADIOACTIVE MATERIALS SECTION
DIVISION OF RADIATION PROTECTION
N.C. DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
RADIOACTIVE MATERIALS LICENSE

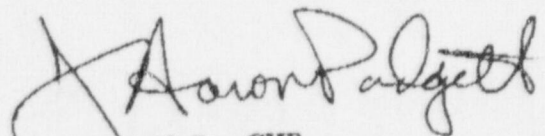
Supplemental sheet

additions (cont.)

- A. Application with attachments dated February 28, 1997, signed by Bob Strople, Vice President Operations; and, letter with attachments dated April 24, 1997, signed by Ernie Ortiz, Director of Engineering.
- B. Letter dated August 19, 1997, signed by Mike Brown, RSO.
- C. Letter dated February 9, 1998, signed by Mike Brown, RSO; and Sealed Source and Device Registry Certificate number NR-317-D-101-E dated August 19, 1996 issued to Fymetics, Inc., Roselle, Illinois.
- D. Letter dated February 16, 1998, signed by Mike Brown, RSO.

Date of Issuance:

February 19, 1998


For: R.M. Fry, CHP
Director, Division of Radiation Protection
RM

CONVERSATION RECORD

TYPE:

Outgoing Telephone
Incoming Telephone
Meeting

NAME OF PERSON CONTACTED:

Larry Ratzlaff

ORGANIZATION:

Walter Kidde

TIME:

9:30

DATE:

10/30/98

SUBJECT:

Confirmed with Larry Ratzlaff (based in Chicago) that the official bussiness name that will handle Smoke Detectors will be Walter Kidde Portable Equipment, Inc. (10/22/98, 4:15 PM)

Larry Confirmed that all models have and will have plastic housing thickness greater than 0.062". (10/30/98, 9:30 AM)

SUMMARY: NONE.

ACTION REQUIRED: NONE.

PLACE THIS RECORD IN:

Registration File NR-1047-D-101-E
QA File
Incident File
General File

PERSON DOCUMENTING THE CONVERSATION:

Ujagar S. Bhachu

SIGNATURE:

Ujagar S. Bhachu

DATE:

10/30/98

8-21/92 ?

Susan Green
Mail Control # 091439
United States Nuclear Regulatory Commission
1 White Flint North
1155 Rockville Pike
Rockville Md. 20852

FYRNETICS INC.

Regarding; Renewal of License No. 12-16856-01E

I am responding to your letter of June 1 1992 regarding the licensing of the chambers used in our line of smoke detectors. In the past the chambers were licensed by the NRC for use in our smoke detectors. At the time of their licensing all information regarding testing for compliance with the commissions requirements was submitted and approved.

In your letter you made no mention of the 100B chamber, this chamber is also listed in our license.

The 500 series chambers (500, 500A, and 500B) are all 5 microcurie chambers. We no longer manufacturer any 5 microcurie chambers, the 500, 500A, and the 500B can be deleted from the license. *delete.*

We have not made any changes to the chambers since their approval by the NRC and consequently all the documentation which pertains to the chamber construction, source mounting, materials used and testing is already in your possession.

In response to the specific points of your letter are as follows;

ITEM 1

We currently market 5 models of smoke detectors which use the 100A or 100B chamber assembly. All of these units use the same electronic assembly, the chamber is also part of this assembly. Drawings of the insulator assembly and the construction of the assembly are included as Appendix "A".

The 5 detector models are;

- Model 0905 9 volt battery operated
Mechanical drawings included as Appendix "B"
- Model 0906 9 volt battery operated with "HUSH"
Mechanical drawings included as Appendix "C"
- Model 0908 9 volt battery operated with "HUSH" and light
Mechanical drawings included as Appendix "D"
- Model 1225 120 volt A.C. operated
Mechanical drawings included as Appendix "E"
- Model 1255 120 volt A.C. operated with "HUSH"
Mechanical drawings included as Appendix "F"

ITEM 2

All of these models are U.L. 217 listed have been on the market for at least 5 years.

Enclosure XIV

REGISTRY OF RADIOACTIVE SEALED SOURCES AND DEVICES
SAFETY EVALUATION OF DEVICE

NO.: NR-1047-D-101-E

DATE: MAR 11 1998

PAGE 1 OF 3

DEVICE TYPE: Ionization Smoke Detector

MODELS: SMD1, 0805, 0905, 0906, 0908, ~~0914~~, ~~0915~~, ~~0916~~, ~~0918~~,
1225, ~~1235~~, 1255, ~~1275~~, and ~~1285~~
200 series

DISTRIBUTOR: Walter Kidde Portable Equipment, Inc.
1394 South Third Street
Mebane, NC 27302

MANUFACTURER: Fyrnetics (Hong Kong) LTD.
(Formerly Management Investment &
Technology Co. LTD)
7th Floor, Tin Fung Industrial Mansion
63 Wong Chuck Hang Road
Aberdeen Hong Kong China

SEALED SOURCE MODEL DESIGNATION: Amersham Model AMM-1001
NRD Model A-001

ISOTOPE:

Americium-241

MAXIMUM ACTIVITY:

1.0 microcurie (37 kBq)

LEAK TEST FREQUENCY: Not Required

PRINCIPAL USE: (P) Ion Generators, Smoke Detectors

CUSTOM DEVICE: _____ YES _____ X _____ NO

~~2805050353~~

3pp

REGISTRY OF RADIOACTIVE SEALED SOURCES AND DEVICES
SAFETY EVALUATION OF DEVICE

NO.: NR-1047-D-101-E

DATE: MAR 11 1993

PAGE 2 OF 3

DEVICE TYPE: Ionization Smoke Detector

DESCRIPTION:

Seven models of smoke detectors contain either a type 100A or 100B ionization chamber. All seven of these models share common tooling for plastic parts. Models utilizing either a 100A or 100B ionization chambers are models: SMD1, 0805, 0905, 0906, 0908, 1225, and 1255. *only in listed.* *Are there more same units?* *08/905?*
~~The other seven models contain a type 200 ionization chamber. All of these models share common tooling for plastic parts. Models utilizing a type 200 ionization chamber are: 0914, 0915, 0916, 0918, 1235, 1275, and 1285.~~
The 200 series 4-7" and all in the list.

Walter Kidde Portable Equipment, Inc., Fyrnetics, Inc. and Fyrnetics Hong Kong, LTD. are all within the Kidde International (UK), Fire Safety Products Group. *check.*

REFERENCES:

The following supporting documents are hereby incorporated by reference and are made a part of this registry document.

- Fyrnetics' letters dated December 4, 1991, April 3, 1992, April 6, 1992, November 30, 1992, December 8, 1992, September 26, 1995, April 2, 1996, and April 11, 1996, with enclosures thereto. *drawn by* *December 6, 1996*
- Fyrnetics' letter received at the U.S. NRC on March 14, 1992, with enclosures thereto. *7?*
- Walter Kidde's application dated August 1 1997, and letters dated January 20, 1998 (2 letters), January 23, 1998, with enclosures thereto, and February 18, 1998.

REGISTRY OF RADIOACTIVE SEALED SOURCES AND DEVICES
SAFETY EVALUATION OF DEVICE

NO.: NR-1047-D-101-E

DATE: MAR 11 1993

PAGE 3 OF 3

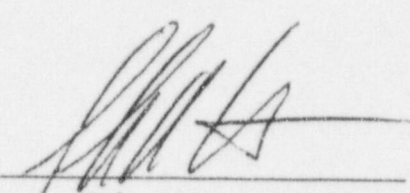
DEVICE TYPE: Ionization Smoke Detector

ISSUING AGENCY:

U.S. Nuclear Regulatory Commission

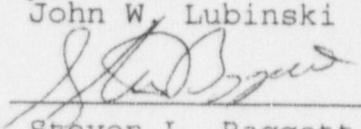
Date: MAR 11 1993

Reviewer:


John W. Lubinski

Date: MAR 11 1998

Concurrence:


Steven L. Baggett

December 8, 1992

United States Nuclear Regulatory Commission
Washington D.C. 20555
Mail Stop 5H24

FYRNETICS INC.

Attn Sterling Bell

Regarding; Renewal of License No. 12-16856-01E

Dear Mr. Bell:

This letter is a follow up to our conversation of December 4, 1992. In that conversation I mentioned that there was a smoke detector that we build as an OEM product and was inadvertently left off of the renewal application.

The unit is a model SMD1 and shares the same electronics package as do all the other models listed in the renewal application.

The SMD1 is a 9 volt battery operated unit. It is equipped with a test button and is U.L. 217 Listed. It has been in production for 5 years.

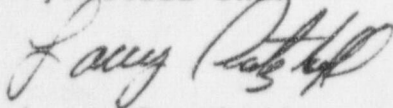
The SMD1 is like all the rest of our detectors can use either the model 100A or the 100B chamber both of which have less than 1 micro curie of AM 241 per chamber.

The SMD1 as all other detectors listed in the original renewal application will be subjected the QC/QA procedures listed in appendix K and Appendix L of the license renewal application.

I am enclosing 2 copies of the detector case drawings for your records. Please see that they are included in the documentation when you send your paper work back to Susan Green.

If you need any other information to proceed with the renewal please contact me and I will try to supply it.

Sincerely,
Fyrnetics Inc.



Larry Ratzleff
Product Eng.

cc. Joanne Sha, Tom Russo

REQUEST FOR A SEALED SOURCE OR
DEVICE EVALUATION

INSTRUCTIONS: Send this request AND a copy of all related letters/applications and drawings to: The Sealed Source Safety Section, ATTN: Chief, OWFN Mail Stop 6 H3. Change the License Tracking System milestone to 19 and assign to reviewer code I-5.
NOTE: Retain a copy of this request with the application and background files.

REQUESTER <i>Kidd SAF-ty</i>		REGION/LOCATION: <input type="checkbox"/> I <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV <input type="checkbox"/> V <input type="checkbox"/> HQ <input type="checkbox"/> LFDCB	
TELEPHONE NUMBER	DATE <i>1/18/98</i>	TYPE OF ACTION REQUESTED (Check as appropriate)	
APPLICANT'S NAME <i>Mike Brown</i>		<input type="checkbox"/> SOURCE REVIEW <input type="checkbox"/> AMENDMENT OF REGISTRATION SHEET NUMBER(S)	
MAIL CONTROL NUMBER(S)		<input type="checkbox"/> DEVICE REVIEW	
LETTER/APPLICATION DATE <i>2/18/98</i>		<input type="checkbox"/> CUSTOM REVIEW <i>NR-1047-D-191-E</i>	
LICENSE NUMBER(S)			
COMMENTS <i>1394 South Third St. Mobile, AL 36602</i>			
FOR SSSS USE ONLY			
REVIEWER <i>J. Burkwood</i>	MODEL NUMBERS <i>2-20 2-22 2-23 2-24</i>	NUMBER ASSIGNED <i>191-E</i>	
DATE RECEIVED <i>2-18/98</i>	DATE ASSIGNED <i>2-24/98</i>	DATE TO FEES <i>2-24/98</i>	
TYPE OF ACTION (Indicate the number of each type)			
COMMERCIAL DISTRIBUTION (FORMAL)		USE BY A SINGLE APPLICANT (CUSTOM)	
SOURCE (9C)	DEVICE (9A)	SOURCE (9D)	DEVICE (9B)
<input type="checkbox"/> NEW <input type="checkbox"/> AMENDMENT	<input type="checkbox"/> NEW <input checked="" type="checkbox"/> AMENDMENT	<input type="checkbox"/> NEW <input type="checkbox"/> AMENDMENT	<input type="checkbox"/> NEW <input type="checkbox"/> AMENDMENT
<input type="checkbox"/> NO SAFETY EVALUATION REQUIRED <input type="checkbox"/> NO FEES REQUIRED		<input type="checkbox"/> LICENSING ACTION REQUIRED IF KNOWN	
<input type="checkbox"/> OTHER (Specify)		<input type="checkbox"/> YES <input type="checkbox"/> NO	
TOTAL NUMBER OF REVIEW HOURS		NOTES	
NUMBER OF DEFICIENCY LETTERS			
NUMBER OF DEFICIENCY CALLS			
FOR BILLING PURPOSES ONLY			
<input type="checkbox"/> NAME CHANGE	<input type="checkbox"/> ADDRESS CHANGE	<input type="checkbox"/> NEW REGISTRATION -- ADD TO BILLING	<input type="checkbox"/> PRODUCT INACTIVE -- REMOVE FROM BILLING
FOR FEE USE ONLY			
TYPE OF FEE <i>23ND</i>	FEE CATEGORY <input type="checkbox"/> 9A <input type="checkbox"/> 9B <input type="checkbox"/> 9C <input type="checkbox"/> 9D		
AMOUNT RECEIVED <i>31610</i>	CHECK NUMBER <i>1695</i>	<input type="checkbox"/> MATANN UPDATED AS REQUIRED	
DATE OF CHECK <i>2/18/98</i>	LOG <i>2-24/98</i>	<input type="checkbox"/> MATSYS UPDATED AS REQUIRED	
APPROVED BY <i>JK</i>	DATE RETURN <i>3/4/98</i>	DATE	
COMMENTS			

**RADIOACTIVE MATERIALS SECTION
DIVISION OF RADIATION PROTECTION
N.C. DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
RADIOACTIVE MATERIALS LICENSE**

Pursuant to North Carolina Regulations for Protection Against Radiation and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, own, possess, transfer and import radioactive materials listed below; and use such radioactive material for the purpose(s) and at the place(s) designated below. This license is subject to all applicable rules and regulations hereafter in effect and to any conditions specified below.

Licensee		3. License No.: 001-1069-1
1. Name: Walter Kidde Portable Equipment, Inc.		4. Expiration Date: May 31, 2002
2a. Mailing Address: 1394 South Third Street Mebane, NC 27302		5. Amendment No.: 2
b. Physical Address: 1394 South Third Street Mebane, NC 27302		
6. Radioactive Material (Element and Mass No.)	7. Chemical and/or Physical Form	8. Maximum Amount of Radioactivity And/or Quantity of Radioactive Material which Licensee may Possess at any one time
A. Americium-241 B. Plutonium-239	A. Foil Sources (NRD Model A-001, Amersham Model AMM; or EADModel AMX 1100) B. Sealed Source (Eberline Model DNS16S)	A. No single foil to exceed 1.0 microcurie B. 0.011 microCurie
9. Authorized Use:		
A. To be used in Kidde Safety Models <u>SM01</u> , 0805, 0905, 0906, 0908, 0914, 0915, 0916, 0918, 1225, 1235, 1255, 1275, and 1285 smoke detectors.		
B. To be used for instrument calibration and operational checks.		

Conditions

10. The authorized place of possession and storage is the licensee's address stated in Item No. 2b. above.
11. The licensee shall comply with the provisions of 15A NCAC 11 .1600, "Standards for Protection Against Radiation," and 15A NCAC 11 .1000, "Notices, Instructions, Reports and Inspections." (The North Carolina Regulations for Protection Against Radiation are contained in 15A NCAC 11.)
- 12A. Radioactive material shall be possessed and stored by, or under the supervision of, Michael D. Brown and Carl Tomeo.
- B. The Radiation Safety Officer for the activities authorized by this license shall be Michael D. Brown.
13. This license does not authorized distribution to persons exempted or licensed pursuant to United States Nuclear Regulatory Commission and/or Agreement State regulations.
14. The licensee shall annually review its Radiation Protection Program for content and implementation [Ref. 15A NCAC 11 .1603(c)]. Documentation of the Radiation Protection program reviews shall be retained for inspection by the agency [Ref. 15A NCAC 11 .1636].
15. Except as specifically provided otherwise by this license, the licensee shall possess and store radioactive material described in Items 6, 7 and 8 of this license in accordance with statements, representations and procedures contained in:
 - A. Application with attachments dated February 28, 1997, signed by Bob Strople, Vice President Operations; and, letter with attachments dated April 24, 1997, signed by Ernie Ortiz, Director of Engineering.

RADIOACTIVE MATERIALS SECTION
DIVISION OF RADIATION PROTECTION
N.C. DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
RADIOACTIVE MATERIALS LICENSE

Supplemental sheet

Conditions (cont.)

15. B. Letter dated August 19, 1997, signed by Mike Brown, RSO.
- C. Letter dated February 9, 1998, signed by Mike Brown, RSO; and Sealed Source and Device Registry Certificate number NR-317-D-101-E dated August 19, 1996 issued to Fyrnetics, Inc., Roselle, Illinois.

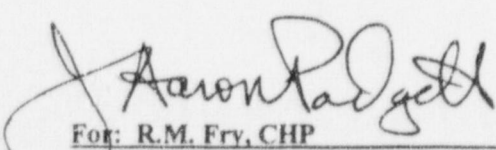
/

[Has been amended]

will this previous license be returned.

Date of Issuance:

February 11, 1998


For: R.M. Fry, CHP

Director, Division of Radiation Protection

**RADIOACTIVE MATERIALS SECTION
DIVISION OF RADIATION PROTECTION
N.C. DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
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Name:	Walter Kidde Portable Equipment, Inc.	4. Expiration Date: May 31, 2002	
a. Mailing Address:	1394 South Third Street Mebane, NC 27302	5. Amendment No.: 2	
b. Physical Address:	1394 South Third Street Mebane, NC 27302		

Radioactive Material (Element and Mass No.)	7. Chemical and/or Physical Form	8. Maximum Amount of Radioactivity And/or Quantity of Radioactive Material which Licensee may Possess at any one time
Americium-241	A. Foil Sources (NRD Model A-001, Amersham Model AMM; or EAD Model AMX 1100)	A. No single foil to exceed 1.0 microcurie
Plutonium-239	B. Sealed Source (Eberline Model DNS16S)	B. 0.011 microCurie

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MAR 11 1998

Walter Kidde Portable Equipment, Inc.
ATTN: Ernest A. Ortiz
Director of Engineering
1394 South Third Street
Mebane, North Carolina 27302

Dear Mr. Ortiz:

Enclosed is Amendment No. 01 to NRC License No. 32-23858-01E.

Please review the enclosed document carefully and be sure that you understand all the conditions. If there are any errors or questions, please contact me so that appropriate corrections and answers can be provided.

Please be advised that you must conduct your program involving radioactive materials in accordance with the conditions specified in your NRC license, representations made in your license application, and other rules, regulations, and orders of the U.S. Nuclear Regulatory Commission, now or hereafter in effect, to include the following:

1. Comply with applicable NRC regulations in 10 CFR Part 30, "Rules of General Applicability to Domestic Licensing of Byproduct Material"; 10 CFR Part 32, "Specific Domestic Licenses to Manufacture or Transfer Certain Items Containing Byproduct Material"; and other applicable regulations.

NOTE: Licensees authorized to distribute or initially transfer products containing byproduct material must also possess a valid possession license issued either by NRC or an Agreement State(s) which authorizes possession and use of byproduct material.

2. Distribute only those products containing radioactive material which are specifically authorized in your license.
3. Notify NRC in writing within 30 days of any change in mailing address (no fee is required if the location of radioactive material remains the same).
4. Request and obtain appropriate amendments if you plan to change control or ownership of your organization, change locations of distribution of products containing radioactive material, or make any other changes in your program which are contrary to the license conditions or representations made in your license application and any supplemental correspondence with NRC. A license fee may be charged for the amendments if you are not in a fee-exempt category.

98-05050372

5. Submit a complete renewal application (with proper fee) or termination request (no fee required) at least 30 days before the expiration date on your license. You should receive a reminder notice approximately 90 days before the expiration date. Continued distribution of products containing radioactive material after your license expires is a violation of NRC regulation.
6. In accordance with 10 CFR 30.36, request termination of your license if you plan to permanently discontinue activities involving distribution of products containing radioactive material.
7. Enclosed is a copy of registration certificate NR-1047-D-101-E. Please be advised that you must manufacture and distribute the products in accordance with the statements and representations contained in your application, with enclosures thereto, and the information set out in your registration certificate. As a general rule, you must request and obtain an amendment to the certificate before you make changes or modifications to the information submitted to obtain the certificate.

You will be periodically inspected by NRC. Failure to conduct your program in compliance with NRC regulations, license conditions, and representations made in your license application and supplemental correspondence with NRC may result in enforcement action(s) against you. This could include issuance of a notice of violation; proposed imposition of a civil penalty; or an order suspending, modifying, or revoking your license as specified in the "General Statement of Policy and Procedures for NRC Enforcement Actions," (NUREG-1600).

If you have any questions, you may contact me at (301) 415-6140.

Sincerely,

Original Signed By:
Anthony S. Kirkwood

Anthony S. Kirkwood
Commercial Use Safety Section
Medical, Academic, and Commercial
Use Safety Branch
Division of Industrial and
Medical Nuclear Safety
Office of Nuclear Material Safety
and Safeguards

Docket No. 030-34526

Enclosures:

1. Amendment. No. 01
2. Reg. Cert. No. NR-1047-D-101-E

cc: Michael D. Brown
Radiation Safety Officer

DISTRIBUTION License File 32-23858-01E IMNS r/f NR-1047-D-101-E File
DOCUMENT NAME: P-WKIDDE2.ASK C=COPY E=COVER/ENCLOSURE N=NO COPY

OFC	IMAB	N	IMAB		IMAB							
NAME	ASKirkwood, ask	JWLubinski	SLB									
DATE	02/ 27 /98	03/ /98	03/ /98									

OFFICIAL RECORD COPY

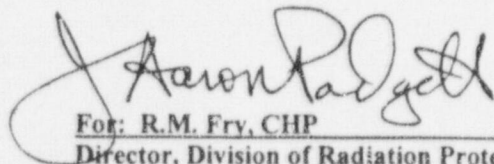

RADIOACTIVE MATERIALS SECTION
DIVISION OF RADIATION PROTECTION
N.C. DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
RADIOACTIVE MATERIALS LICENSE

Supplemental sheet

Conditions (cont.)

15. B. Letter dated August 19, 1997, signed by Mike Brown, RSO.
- C. Letter dated February 9, 1998, signed by Mike Brown, RSO, and Sealed Source and Device Registry Certificate number NR-317-D-101-E dated August 19, 1996 issued to Fyrnetics, Inc., Roselle, Illinois.

Date of Issuance: February 11, 1998


For: R.M. Fry, CHP
Director, Division of Radiation Protection


**RADIOACTIVE MATERIALS SECTION
DIVISION OF RADIATION PROTECTION
N.C. DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
RADIOACTIVE MATERIALS LICENSE**

Pursuant to North Carolina Regulations for Protection Against Radiation and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, own, possess, transfer and import radioactive materials listed below; and use such radioactive material for the purpose(s) and at the place(s) designated below. This license is subject to all applicable rules and regulations hereafter in effect and to any conditions specified below.

Licensee Name: Walter Kidde Portable Equipment, Inc. a. Mailing Address: 1394 South Third Street Mebane, NC 27302 b. Physical Address: 1394 South Third Street Mebane, NC 27302		3. License No.: 001-1069-1
		4. Expiration Date: May 31, 2002
		5. Amendment No.: 2
Radioactive Material (Element and Mass No.)	7. Chemical and/or Physical Form	8. Maximum Amount of Radioactivity And/or Quantity of Radioactive Material which Licensee may Possess at any one time
Americium-241	A. Foil Sources (NRD Model A-001, Amersham Model AMM; or EAD Model AMX 1100)	A. No single foil to exceed 1.0 microcurie
Plutonium-239	B. Sealed Source (Eberline Model DNS16S)	B. 0.011 microCurie

Authorized Use:

To be used in Kidde Safety Models SM01, 0805, 0905, 0906, 0908, 0914, 0915, 0916, 0918, 1225, 1235, 1255, 1275, and 1285 smoke detectors.

To be used for instrument calibration and operational checks.

Conditions

The authorized place of possession and storage is the licensee's address stated in Item No. 2b. above.

The licensee shall comply with the provisions of 15A NCAC 11 .1600, "Standards for Protection Against Radiation," and 15A NCAC 11 .1000, "Notices, Instructions, Reports and Inspections." (The North Carolina Regulations for Protection Against Radiation are contained in 15A NCAC 11.)

A. Radioactive material shall be possessed and stored by, or under the supervision of, Michael D. Brown and Carl Tomeo.

B. The Radiation Safety Officer for the activities authorized by this license shall be Michael D. Brown.

This license does not authorize distribution to persons exempted or licensed pursuant to United States Nuclear Regulatory Commission and/or Agreement State regulations.

The licensee shall annually review its Radiation Protection Program for content and implementation [Ref. 15A NCAC 11 .1603(c)]. Documentation of the Radiation Protection program reviews shall be retained for inspection by the agency [Ref. 15A NCAC 11 .1636].

Except as specifically provided otherwise by this license, the licensee shall possess and store radioactive material described in Items 6, 7 and 8 of this license in accordance with statements, representations and procedures contained in:

A. Application with attachments dated February 28, 1997, signed by Bob Strople, Vice President Operations; and, letter with attachments dated April 24, 1997, signed by Ernie Ortiz, Director of Engineering.

RADIOACTIVE MATERIALS SECTION
DIVISION OF RADIATION PROTECTION
N.C. DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
RADIOACTIVE MATERIALS LICENSE

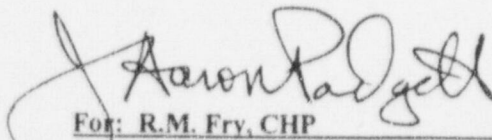
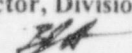
Supplemental sheet

Conditions (cont.)

15. B. Letter dated August 19, 1997, signed by Mike Brown, RSO.
- C. Letter dated February 9, 1998, signed by Mike Brown, RSO; and Sealed Source and Device Registry Certificate number NR-317-D-101-E dated August 19, 1996 issued to Fyrnetics, Inc., Roselle, Illinois.

ate of Issuance:

February 11, 1998


For: R.M. Fry, CHP
Director, Division of Radiation Protection


Page 1 of 2

**RADIOACTIVE MATERIALS SECTION
DIVISION OF RADIATION PROTECTION
N.C. DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
RADIOACTIVE MATERIALS LICENSE**

Pursuant to North Carolina Regulations for Protection Against Radiation and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, own, possess, transfer and import radioactive materials listed below; and use such radioactive material for the purpose(s) and at the place(s) designated below. This license is subject to all applicable rules and regulations hereafter in effect and to any conditions specified below.

Licensee		3. License No.:	001-1069-1
1. Name:	Walter Kidde Portable Equipment, Inc.	4. Expiration Date:	May 31, 2002
2a. Mailing Address:	1394 South Third Street Mebane, NC 27302	5. Amendment No.:	2
b. Physical Address:	1394 South Third Street Mebane, NC 27302		
6. Radioactive Material (Element and Mass No.)	7. Chemical and/or Physical Form	8. Maximum Amount of Radioactivity And/or Quantity of Radioactive Material which Licensee may Possess at any one time	
A. Americium-241	A. Foil Sources (NRD Model A-001, Amersham Model AMM; or EAD Model AMX 1100)	A. No single foil to exceed 1.0 microcurie	
B. Plutonium-239	B. Sealed Source (Eberline Model DNS16S)	B. 0.011 microCurie	

Authorized Use:

To be used in Kidde Safety Models SM01, 0805, 0905, 0906, 0908, 0914, 0915, 0916, 0918, 1225, 1235, 1255, 1275, and 1285 smoke detectors.

To be used for instrument calibration and operational checks.

Conditions

1. The authorized place of possession and storage is the licensee's address stated in Item No. 2b. above.
- The licensee shall comply with the provisions of 15A NCAC 11 .1600, "Standards for Protection Against Radiation," and 15A NCAC 11 .1000, "Notices, Instructions, Reports and Inspections." (The North Carolina Regulations for Protection Against Radiation are contained in 15A NCAC 11.)
- A. Radioactive material shall be possessed and stored by, or under the supervision of, Michael D. Brown and Carl Tomeo.
- B. The Radiation Safety Officer for the activities authorized by this license shall be Michael D. Brown.
- This license does not authorized distribution to persons exempted or licensed pursuant to United States Nuclear Regulatory Commission and/or Agreement State regulations.
- The licensee shall annually review its Radiation Protection Program for content and implementation [Ref. 15A NCAC 11 .1603(c)]. Documentation of the Radiation Protection program reviews shall be retained for inspection by the agency [Ref. 15A NCAC 11 .1636].
- Except as specifically provided otherwise by this license, the licensee shall possess and store radioactive material described in Items 6, 7 and 8 of this license in accordance with statements, representations and procedures contained in:
- A. Application with attachments dated February 28, 1997, signed by Bob Strople, Vice President Operations; and, letter with attachments dated April 24, 1997, signed by Ernie Ortiz, Director of Engineering.

RADIOACTIVE MATERIALS SECTION
DIVISION OF RADIATION PROTECTION
N.C. DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
RADIOACTIVE MATERIALS LICENSE

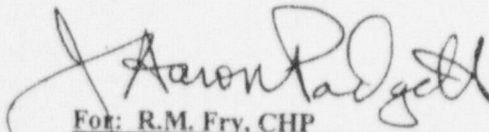
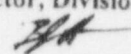
Supplemental sheet

Conditions (cont.)

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ate of Issuance:

February 11, 1998


For: R.M. Fry, CHP
Director, Division of Radiation Protection


KIDDE

SAFETY

1394 South Third Street, Mebane, NC 27302
Tel: (919) 563-5911 Fax: (919) 563-4582
www.kidde.com

check attached

030-34526

February 18, 1998

US Nuclear Regulatory Commission
Division of Industrial and Medical Nuclear Safety
Office of Nuclear Materials Safety and Safeguards
Washington, DC 20555

Attn: Steven L. Baggett

References: NRC License Number 32-23858-01E
Sealed Source Registry No. NR-1047-D-101-E

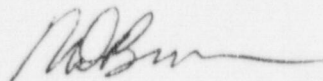
Dear Steve,

It is requested that the above license and registry be amended to reflect the distribution of a Model 1285 smoke alarm which was inadvertently omitted from our application dated August 1, 1997. The specifications for this unit were included in Enclosure XIII of the application, however this unit was not listed in Item 6.

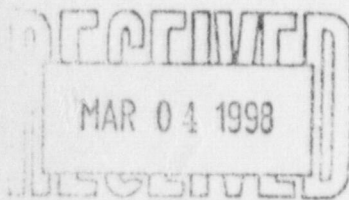
Currently our North Carolina State License has been amended (copies enclosed) to authorize possession of the Model 1285. Our California license is being processed at this time. Due to the time constraints, we will add Model 1285 to the California License at a latter date. In addition, a check in the amount of \$1,610.00 is also enclosed based upon a license amendment fee of \$1,000.00 (Category 3H) and \$610.00 fee for amendment of the registry (Category 9A).

Your past efforts and assistance with our registry and license are very appreciated and we are hopeful at this time that these amendments can be issued in a expeditious manner so that we will be able to provide all models of smoke alarms to our customers without delay.

Sincerely,

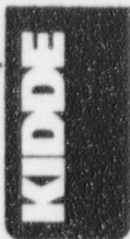


Mike Brown
Environmental/Safety Manager/RSO



9805050363

021953



Walter Kidde
The Fire Extinguisher Company
1394 South Third Street
Mebane, NC 27302-9711

51-80
111

071695

PAY to the order of	VENDOR NUMBER	CHECK DATE	CHECK NUMBER	AMOUNT PAID
US NUCLEAR REGULATORY	205551	2/23/98	71695	\$1,610.00

WASHINGTON

DC 20555

BANK OF BOSTON
CONNECTICUT

Kimpton Hargis
AUTHORIZED SIGNATURE
[Signature]
AUTHORIZED SIGNATURE

⑈071695⑈ ⑆011100805⑆ 574 09155⑈



1394 South Third Street, Mebane, NC 27302
Tel: (919) 563-5911 Fax: (919) 563-4582
www.kidde.com

check attached
230-34526

February 18, 1998

US Nuclear Regulatory Commission
Division of Industrial and Medical Nuclear Safety
Office of Nuclear Materials Safety and Safeguards
Washington, DC 20555

Attn: Steven L. Baggett

References: NRC License Number 32-23858-01E
Sealed Source Registry No. NR-1047-D-101-E

Dear Steve,

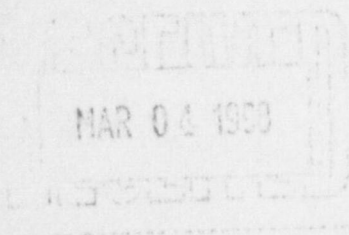
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Your past efforts and assistance with our registry and license are very appreciated and we are hopeful at this time that these amendments can be issued in a expeditious manner so that we will be able to provide all models of smoke alarms to our customers without delay.

Sincerely,

Mike Brown
Environmental/Safety Manager/RSO



9805050363

PENDING

021953



Walter Kidde Portable Equipment, Inc.
1394 South Third Street
Mebane, NC 27302
(919) 563-5911 Phone
(919) 563-4582 Fax

TO : Steve Bagget , NRC
FROM : Mike Brown
DATE : 01/19/98
SUBJECT : Product Packaging Statement (Attachment 1)

Per your request concerning how the Sealed Source (Smoke Detector) Units will be received at our facility from the Manufacturer the following statement applies to all product model lines.

Statement:

Each Sealed Source (Smoke Detector) product will be individually packaged, and cartoned ready to distribute by the manufacturer Fyrnetics (Hong Kong) Ltd. prior to shipment to the Walter Kidde Mebane Facility. All units received by the Mebane, North Carolina, or California facilities will be distributed to the consumer in the same packaging as received from the manufacturer.

Signed By:

A handwritten signature in dark ink, appearing to read "Mike Brown", written over a horizontal line.

Mike Brown

Manager of Safety and Environmental Engineering
Facility RSO

mdb/nrcpackage statement



Walter Kidde Portable Equipment, Inc.
1394 South Third Street
Mebane, NC 27302
(919) 563-5911 Phone
(919) 563-4582 Fax

TO : Steve Bagget - NRC
FROM : Mike Brown
DATE : 01/20/98
SUBJECT : Information requested for NRC License

1. Currently the Manufacture is listed under different names on the Fyrnetics Lic. And our application. Which name do we plan to use MIT or Fyrnetics (Hong Kong) Ltd.?

ANSWER Fyrnetics (Hong Kong) Ltd.

2. Need Reference Material for the following Dates.

12/4/91, 4/6/92, 4/3/92 (Appendix "B"), 11/30/92, 8/31/92, 12/8/92, 4/2/96, 4/11/96. See attached dated reference material.

3. Missing Drawing # 93111020-04 which is the 906 cover assembly.

4. We currently show a model 100 ion chamber, do we need the 100B ion chamber also?

Answer Yes, 100A, 100B, and 200 ion chambers

5. Provide a statement as how the product is received from the manufacture. Is it shipped packed as ready to distribute?

Answer See Attachment 1

6. Statement from NRC. Model 1285 was not included on the N.C. or California License and will not be included in the Federal License.

7. What Amersham Foil Source will we use, AMM, A-001?

Answer NRD Model A-001 and Amersham A-1001

8. List expected number of units we expect to distribute during the up-coming year.

Answer 5,237,721 Units/yr.

9. What is the Useful (expected) life of a unit?

Answer 10 Yrs.

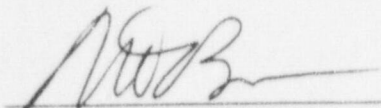
10. What kind of certification is given to us from the Manufacture as to the QAQC upon receipt of materials so we can initiate our inspection?

Answer Wipe Test Record, see attached example copy

Question number (2) item date 8/31/92 no dated record was found by Fyrnetics however after reviewing our application I found a undated reply to Susan Green regarding the renewal of License No. 12-16856-01E near this time period and believe this could be the answer to her inquiry on June1, 1992. I have included a copy of the first sheet of this letter it is found on page 56 of our application.

Question number (3) concerning a missing drawing # 93111020-04 for the 906 cover assembly has been found however the drawing has been reproduced many times and the number is not legible. I have asked Larry Ratzlaff to supply this drawing verifying its existence and will be sending this print to you by mail.

I hope I have satisfied your request, if not please contact me immediately. As you know this License is greatly affecting the way we are having do business and we would greatly appreciate your prompt approval of our application. Thank you for your help in this matter



Mike Brown, RSO

MATERIALS LICENSE

Amendment No. 01

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 36, 39, 40, and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations, and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

Licensee		In accordance with letter dated February 18, 1998,	
1.	Walter Kidde Portable Equipment, Inc.	3. License Number	32-23858-01E is amended in its entirety to read as follows:
2.	1394 South Third Street Mebane, North Carolina 27302	4. Expiration Date	January 31, 2008
		5. Docket or Reference No.	030-34526
6. Byproduct, Source, and/or Special Nuclear Material		7. Chemical and/or Physical Form	8. Maximum Amount that Licensee May Possess at Any One Time Under This License
A. Americium-241		A. Foil sources (NRD Model A-001, Amersham Model AMM-1001)	A. Not applicable. (See Condition 10)

9. Authorized Use

Pursuant to Section 32.26, 10 CFR Part 32, the licensee is authorized to distribute smoke detector devices specified in Condition 10 to persons exempt from the requirements for a license pursuant to Section 30.20, 10 CFR Part 30, or equivalent provisions of the regulations of any Agreement State.

CONDITIONS

10. The following smoke detector devices may be distributed pursuant to this license provided the amount of americium-241 contained in each device does not exceed the amounts specified in the following table:

<u>Device Model</u>	<u>Maximum Quantity per Device</u>
0905	1.0 microcurie
0906	1.0 microcurie
0908	1.0 microcurie
0914	1.0 microcurie
0915	1.0 microcurie
0916	1.0 microcurie
0918	1.0 microcurie
1225	1.0 microcurie
1235	1.0 microcurie

9803-240201

488

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License No.

32-23858-01E

Docket or Reference Number

030-34526

Amendment No. 01

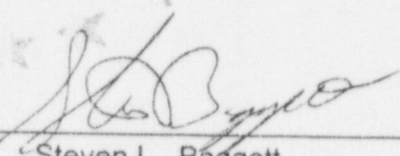
CONDITIONS

10. (Continued)
- | <u>Device Model</u> | <u>Maximum Quantity per Device</u> |
|---------------------|------------------------------------|
| 1255 | 1.0 microcurie |
| 1275 | 1.0 microcurie |
| 1285 | 1.0 microcurie |
11. This license does not authorize possession or use of licensed material.
12. The licensee may distribute only from its facilities located at 1394 South Third Street Mebane, North Carolina and 1619 Spring Street, Long Beach, California.
13. The licensee shall file periodic reports as specified in Section 32.29(c), 10 CFR Part 32.
14. Except as specifically provided otherwise by this license, the licensee shall conduct its program in accordance with the statements, representations and procedures contained in the documents, including any enclosures, listed below. The Nuclear Regulatory Commission's regulations shall govern unless the statements, representations and procedures in the licensee's application and correspondence are more restrictive than the regulations.
- A. Application dated August 1, 1997;
 - B. Letter dated January 20, 1998;
 - C. Letter dated January 23, 1998;
 - D. Registration Certificate No. NR-1047-D-101-E; and
 - E. Letter dated February 18, 1998.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

DATE: MAR 11 1998

BY:


Steven L. Baggett
Medical, Academic, and Commercial
Use Safety Branch
Division of Industrial and
Medical Nuclear Safety
Office of Nuclear Material Safety
and Safeguards
Washington, DC 20555

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License Number

32-23858-01E

Docket or Reference Number

030-34526

Amendment No.01

CONDITIONS

10. (Continued)
- | <u>Device Model</u> | <u>Maximum Quantity per Device</u> |
|---------------------|------------------------------------|
| 1255 | 1.0 microcurie |
| 1275 | 1.0 microcurie |
| 1285 | 1.0 microcurie |
11. This license does not authorize possession or use of licensed material.
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 - B. Letter dated January 20, 1998;
 - C. Letter dated January 23, 1998;
 - D. Registration Certificate No. NR-1047-D-101-E; and
 - E. Letter dated February 18, 1998.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

ajk
2/27/98

DATE: MAR 11 1999

BY: ORIGINAL SIGNED BY:

Steven L. Baggett
Medical, Academic, and Commercial
Use Safety Branch
Division of Industrial and
Medical Nuclear Safety
Office of Nuclear Material Safety
and Safeguards
Washington, DC 20555

TELEPHONE CONVERSATION RECORD	Date: January 21, 1998	Time: 10:36
Mail Control No.: 021915	License No.: NEW	Docket No.: 030-34526
Person Called: Michael D. Brown, RSO	Organization: Walter Kidde Portable Equipment, Inc.	Telephone Number: (919) 563-5911, x221
Person Calling: Anthony S. Kirkwood		
Subject: License request of 08/01/97		
<p>Summary: Mr. Brown was called on 1/16/98, to transmit deficiency questions on his application for a 32.26 license. He was asked to provide the following:</p> <ol style="list-style-type: none"> 1. <u>Missing Letters</u> 12/4/91, 4/6/92, 4/3/92, 11/30/92, 8/31/92, 12/8/92, 4/2/96, and 4/11/96 2. How are smoke detectors received from manufacturer? 3. Missing drawing labelled 93111020-04, Model 906 Cover 4. Model 1285 is not listed on the state licenses. 5. What is the correct model of the sealed source(s) you wish to use? 6. Total quantity of BPM to be distributed annually? 7. Expected useful life of product? 8. QA/QC procedures of manufacturer. What certification does manufacturer provide you? <p>1/21/98 - Mr. Brown was asked about #3, drawing. He will send a poor copy. About #4, Model 100B evaluation letter dated 2/19/88. He will send. About #10, DC certification and test results. He will inquire and respond. Other alternative would be for him to do 3% LTPD on DC. ASK.</p>		
Action Required/Taken: File with docket.		
Signature: <i>A. Kirkwood</i>	Date: 1/21/98	

March 5, 1998

ASSIGNMENT NUMBER: 98-32

Mr. Mike Brown
Kidde Safety
1394 South Third Street
Mebane, NC 27302

SUBJECT: ACKNOWLEDGMENT OF REQUEST FOR SAFETY EVALUATION

Dear Mr. Brown:

This letter acknowledges the receipt of your February 18, 1998, application that requested a safety evaluation of the Model CPD 705X Smoke Detector. We have performed a cursory review of your application and determined that enough information has been provided to allow a technical reviewer to initiate the evaluation process. Applications are assigned to technical reviewers on a first-in basis. Therefore, your application will be assigned in turn. Please note that the technical reviewer may contact you to request information that was omitted from your application or to obtain clarification of technical issues concerning your application. If you have any questions concerning the status of your application, please contact me at (301) 415-8140. Please reference the assignment number listed above in your questions or correspondence.

Please be aware that your request may be subject to the NRC's application fees in accordance with 10 CFR Part 170. Therefore, a copy of your application has been forwarded to the License Fee and Debt Collection Branch for approval of the fee category and amount. If you have any questions concerning the fees associated with your application, please contact the License Fee and Debt Collection Branch at (301) 415-7554.

Sincerely,

151
KimBerly Randall, Registration Assistant
Materials Safety Branch
Division of Industrial and
Medical Nuclear Safety
Office of Nuclear Material Safety
and Safeguards

Distribution:

IMNS r/f SSD-98-32
SBaggett NE01

DOCUMENT NAME: P:98-32.wpd

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OFFICE	MSB								
NAME	KRandall								
DATE	3/5/98								

OFFICIAL RECORD COPY

9805050376 980311
PDR RC *
SSD PDR

KIDDE

SAFETY

1394 South Third Street, Mebane, NC 27302
Tel: (919) 563-5911 Fax: (919) 563-4582
www.kidde.com

Rec'd
2/28/98

February 18, 1998

US Nuclear Regulatory Commission
Division of Industrial and Medical Nuclear Safety
Office of Nuclear Materials Safety and Safeguards
Washington, DC 20555

Attn: Steven L. Baggett

References: NRC License Number 32-23858-01E
Sealed Source Registry No. NR-1047-D-101-E

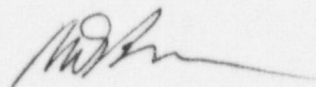
Dear Steve,

It is requested that the above license and registry be amended to reflect the distribution of a Model 1285 smoke alarm which was inadvertently omitted from our application dated August 1, 1997. The specifications for this unit were included in Enclosure XIII of the application, however this unit was not listed in Item 6.

Currently our North Carolina State License has been amended (copies enclosed) to authorize possession of the Model 1285. Our California license is being processed at this time. Due to the time constraints, we will add Model 1285 to the California License at a latter date. In addition, a check in the amount of \$1,610.00 is also enclosed based upon a license amendment fee of \$1,000.00 (Category 3H) and \$610.00 fee for amendment of the registry (Category 9A).

Your past efforts and assistance with our registry and license are very appreciated and we are hopeful at this time that these amendments can be issued in a expeditious manner so that we will be able to provide all models of smoke alarms to our customers without delay.

Sincerely,



Mike Brown
Environmental/Safety Manager/RSO

9805050363

KIDDE

SAFETY

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Tel: (919) 563-5911 Fax: (919) 563-4582
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February 18, 1998

US Nuclear Regulatory Commission
Division of Industrial and Medical Nuclear Safety
Office of Nuclear Materials Safety and Safeguards
Washington, DC 20555

Attn: Steven L. Baggett

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Sealed Source Registry No. NR-1047-D-101-E

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Your past efforts and assistance with our registry and license are very appreciated and we are hopeful at this time that these amendments can be issued in a expeditious manner so that we will be able to provide all models of smoke alarms to our customers without delay.

Sincerely,



Mike Brown
Environmental/Safety Manager/RSO

9805050363 980311

PDR RC *

SSD

PDR



FAX MESSAGE 919-563-4582

To: Mr. Steve Bagget - NRC
From: Mike Brown
Fax#: 1-301-415-5369
Subject: Letter of Conformity
Date: January 23, 1998

If the overseas manufacturer does not supply the Certificate of Testing for the Design Conformity of the Smoke Detectors then we, Kidde Safety, will test in accordance with the 3% LTPD Tables. If the manufacturer provides appropriate certificate of testing for the Design Conformity then Kidde Safety will use the 5% LTPD tables contained in the NRC regulatory guide C.9.

Authorized Signature: _____

Mike Brown
Environmental and Safety Manager/RSO

cc: Tony Kirkwood



Walter Kidde Portable Equipment, Inc.
1394 South Third Street
Mebane, NC 27302
(919) 563-5911 Phone
(919) 563-4582 Fax

MEMORANDUM

TO : Steve Bagget
FROM : Mike Brown
DATE : 01/20/98
SUBJECT : 906 Cover Print and 100B information

Please find the inclosed, print information for the 906 Cover and information on the 100B ion Chamber. I have also included a hard copy of the information previously fax to you on 1/20/98. Please contact me if there are any problems.

Thanks,

A handwritten signature in dark ink, appearing to read "Mike Brown", written over a horizontal line.

Mike Brown, Safety/Environmental Eng. Mgr., RSO

WIPE TEST RECORD (COMPLETED DETECTORS)

DESC: 12351

P/N: 123C-9995

DATE: 20-7-97

LOT NO	QUANTITY (数量)	S/S (样本)	TESTDATA (测试数据)	DISPOSITION (处理方法)	LOT NO	QUANTITY (数量)	S/S (样本)	TESTDATA (测试数据)	DISPOSITION (处理方法)
1	924	75	0	OK	26				
2					27				
3					28				
4		1235	1235-9996		29				
5	1200	75	0	OK	30				
6					31				
7					32				
8		7142	0714-9998		33				
9	1200	75	0	OK	34				
10	1200	75	0	OK	35				
11	1200	75	0	OK	36				
12	1200	75	0	OK	37				
13	1200	75	0	OK	38				
14	1200	75	0	OK	39				
15	1200	75	0	OK	40				
16					41				
17					42				
18		01112	0111-9993		43				
19	372	75	0	OK	44				
20					45				
21					46				
22					47				
23					48				
24					49				
25					50				

TESTED BY: 邱君清

QA SUPER: [Signature]

APPROVED BY: [Signature]



Walter Kidde
The Fire Extinguisher Company

1394 South Third Street
Mebane, NC 27302-9711

PHONE: 919-563-5911
FAX: 919-563-3954

August 7, 1997

Susan Green
Division of Industrial and Medical Nuclear Safety
Office of Nuclear Materials Safety and Safeguards
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001

Dear Ms. Green;

Enclosed is an application and support information for a U.S. N.R.C. Distribution License. The application includes models identical in construction to models distributed by our sister division Fyrnetics and covered under U.S. NRC Material License Number 12-16856-01E and Registered Radioactive Sealed Sources and Devices Number NR-317-D-101-E.

All Smoke Detector Models included in the application are manufactured by Fyrnetics (Hong Kong) LTD. This company also manufactures the above referenced units distributed by Fyrnetics Inc.

Commercial considerations require distribution through this license as soon as possible. We would appreciate the most expeditious evaluation and approval of this license application. If you have any questions please contact me at (919) 563-5911, Extension 211.

Thank you for your consideration.

Sincerely,

Ernest A. Ortiz
Director of Engineering
Walter Kidde Portable Equipment, Inc.

9802/20190 1p 3/21/01

RETAIN THIS NUMBER-CUSTOMER
RECEIPT WILL BE MAILED TO YOU.

T8017377866US

December 8, 1992

United States Nuclear Regulatory Commission
Washington D.C. 20555
Mail Stop 5H24

FYRNETICS INC.

Attn Sterling Bell

Regarding: Renewal of License No. 12-16856-01E

Dear Mr. Bell:

This letter is a follow up to our conversation of December 4, 1992. In that conversation I mentioned that there was a smoke detector that we build as an OEM product and was inadvertently left off of the renewal application.

The unit is a model SMD1 and shares the same electronics package as do all the other models listed in the renewal application.

The SMD1 is a 9 volt battery operated unit. It is equipped with a test button and is U.L. 217 Listed. It has been in production for 5 years.

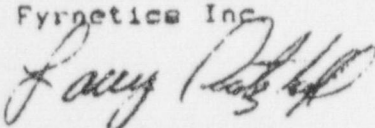
The SMD1 is like all the rest of our detectors can use either the model 100A or the 100B chamber both of which have less than 1 micro curie of AM 241 per chamber.

The SMD1 as all other detectors listed in the original renewal application will be subjected the QC/QA procedures listed in appendix K and Appendix L of the license renewal application.

I am enclosing 2 copies of the detector case drawings for your records. Please see that they are included in the documentation when you send your paper work back to Susan Green.

If you need any other information to proceed with the renewal please contact me and I will try to supply it.

Sincerely,
Fyrnetics Inc.


Larry Ratzlaff
Product Eng.

cc. Joanne Sha, Tom Russo

9802120265 980206
PDR RC * PDR
SSD

1055 Stevenson Court, Suite 102-W • Roseville, Illinois 60172 • (708) 893-4592 • Fax (708) 893-9967

9802120265



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20566

NOV 23 1992

Fyrnetics, Inc.
ATTN: Mr. Larry Ratzlaff
1021 Davis Road
Elgin, IL 60123

SUBJECT: DEFICIENCY LETTER

Dear Mr. Ratzlaff:

To confirm our phone conversation of Friday, November 20, 1992, please furnish us the following information, so that we may continue the review of your registration sheet NR-317-D-101-E.

Please identify which smoke detectors models contain which type of ionization chambers. Where a smoke detector may contain more than one type of ionization chamber, please denote which chambers go with what models. Also, identify which models are battery powered and which are hard wired. Please verify that models 805 and 905 are identical units. If they are not, please clarify the differences. Please confirm that all smoke detectors contain less than 1 μ ci of AM 241.

If you should have any questions concerning this request, please do not hesitate to contact me at (301) 504-2617.

Kindest regards,

Sterling Ball

Sterling Ball
Sealed Source Safety Section
Source Containment and
Devices Branch
Division of Industrial and Medical
Nuclear Safety, NMSS

*under PC
mail stop 6143
20555*

April 6, 1992

Steven L. Baggett
Mail Stop 6H3
United States Nuclear Regulatory Commission
1 White Flint North
1155 Rockville Pike
Rockville MD 20852

FYRNETICS INC.

Regarding: Response to issues pertaining to the amendment to
our NRC License No. 12-16856-01E control # 121188

Dear Mr. Baggett;

I have corresponded with John Lubinski over the past few weeks. We have come to an agreement as to what testing is required on the mounted foil sources and the completed smoke alarm. This also includes which testing will be performed at the manufacturing and distribution locations.

John informed me that he would be out of the office this week and suggested that I send the information to your attention to avoid additional delays of the application.

If you have any questions regarding any of the supplied information please call me.

Thanks again for all the assistance you and John have provided on this project.

Sincerely,
Fyrnetics Inc.

Larry Ratzlaff
Larry Ratzlaff
Product Eng.

9802120244 980206
PDR RC * PDR
SSD



1. SOURCE_CHECK

After the sources are received from NRD or AMERSNAM we will inspect the sources in order to assess its suitability for the following items.

- a. Visual Check
- b. Packing

2. SOURCE_STAKING_VISUAL_INSPECTION

The source holders will be 100 % inspected after assembly. The stake marks must clearly be seen. No damage of the source is accepted.

3. VIBRATION_TEST

Every 1000 pieces of production source holders assemblies will form a control batch, 80 samples will be drawn for vibration testing (MIL-STD-105D).

Conditions	Frequency:	50 - 60 HZ
	Amplitude:	0.5 mm P-P
	Duration:	1.0 minute

100 % visual check after vibration test, no loose source is allowed. If a loose source is found 100 % of the batch will be put through the vibration test and visual inspection procedure.

4. LEAKAGE_TEST

4.1 EQUIPMENT

- a. Scintillation Alpha Counter: Eberline Model SAC-4
- b. Certified calibration source: Manufacturer Eberling
Instrument Corporation

Model:	S-1072
Isotope:	TH-230
Quantity:	23,230 cpm

RECEIVED
DATE: 10/10/80
BY: [illegible]

RECEIVED
DATE: 10/10/80
BY: [illegible]

4.2 CALIBRATION OF COUNTER

- a. Connect the counter to line voltage 220 VAC.
- b. Push the START / OFF button upward.
- c. Allow counter to warm up for 5 minutes.
- d. Set counting time to 1 minute.
- e. Clean the moveable drawer with a test paper, then shut the drawer.
- f. Push the START / RESET button to COUNT.
- g. After the counting has stopped, note the total number of counts. This background leakage is L1.
- h. Insert the calibrated source in the counter drawer and close the drawer. Count for 1 minute. This reading is L2.
- i. ACCEPT REJECT COUNTS equals $(L_2 \text{ minus } L_1)$ divided by the calibration source quantity times ACCEPT / REJECT QUANTITY.
- j. Post this ACCEPT / REJECT COUNTS on the counter.

4.3 TEST PROCEDURE FOR MOUNTED SOURCES

100 % testing of mounted sources

1. After selected vibration testing and visual inspection 100 % of the mounted sources in the 1000 piece control batch will be placed in rows or groups of 75 pieces.
2. A test paper is moistened with alcohol, that test paper is then wiped across each of the individual units (the same paper is wiped across each of the 75 units) in the row or group. All mounted sources in the lot are wiped following this procedure and in no case will the amount of sources wiped with one moistened test paper exceed 75 pieces.
3. Each test paper is evaporated to dryness.
4. Each Individual test paper is put into the door of the counter and the door closed.
5. Push the start / reset button and count for 1 minute
 - A. If the count is less than the acceptable leakage limit for a single source (100 pCi) those 75 pieces will be accepted.

- b. If the count is greater than the acceptable leakage limit for a single source that batch of 75 pieces will be rejected.
 - a. If rejected the entire 75 piece lot will be cleaned and the complete test repeated.
 - a1. If the second test count is now less than the acceptable limit for a single source (100 pCi) the 75 piece lot will be accepted.
 - a2. If after the second test the count is greater than the acceptable limit for a single source all 75 pieces will be returned to the source vendor.

5. NIT AUDIT PROCEDURE FOR COMPLETED DETECTORS

After the smoke detectors are completely assembled and prior to packaging NIT will perform an inspection on a random sample of each production lot of smoke detectors. The size of the audit sample will be based on the 5 % LTPD sampling chart.

The detectors will be checked for the following items

1. Mechanical integrity of the detector (insure that the detector is properly assembled).
 - 1a. Zero defects allowed, if defects are found the lot will be handled in the manner outlined in 5, b1. of this test procedure.
2. Labeling, The point of sale packaging labeling and the detector labeling will be checked to insure that they meet the N.R.C. labeling requirements.
 - 2a. Zero defects allowed, if defects are found the lot will be handled in the manner outlined in 5, b1. of this test procedure.
3. A leakage test to insure that no radioactive contamination is present on the case of the detector will be performed using the equipment called out in the preceding test and the following procedure:
 1. A test paper will be moistened with alcohol.
 2. These audited detectors (75 pieces maximum) will be wiped with the same moistened test paper.
 3. The test paper will be evaporated to dryness.
 4. The test paper will be placed in the drawer of the counter and the door closed.
 5. Push the Start / Reset button and count for 1 minute
 - a. If the total count is less than the acceptability limit for one unit (100pCi) the whole lot would be accepted. and released for shipment

- b. If the total count is greater than the acceptable limit for a single detector the whole lot will be rejected.
 - b1. The rejected lot will be segregated from the other units in house and a 100 percent testing of the entire lot will be performed using the appropriate procedure. All units passing the 100% test will be released for shipment.
 - b2. All rejected units will be scraped.
- 6. All records from the testing will be sent to Fyrnetics along with the product and kept at Fyrnetics for inspection by the N.R.C..

April 2, 1996

FYRNETICS INC.

Chris Brown
U.S. NRC
Mail Stop TW8K7
Washington D.C. 20555

Subject: Addition of new smoke alarm model to current licence
12-16856-01E control # 021785

Dear Mr. Brown;

In our phone conversation on 4/2/96 you mentioned that you could not find the drawings relating to our model 0915 smoke alarm in the NRC file, and that you needed these drawings for comparison with the new model 0914 smoke alarm drawings. I have included the following drawings for the model 0915:

- 1, Circuit board drawing, which is referred to by UL as ILL. 19 page 2. The comparable drawing for the 0914 circuit board will be the drawing labeled with the part # 0925-5201 REV.00
- 2, Base drawing, which is referenced to by UL as ILL 26. The comparable drawing for the model 0914 will be the drawing labeled BASE with the part # 0919.
- 3, Cover drawing, which is referred to by UL as ILL 25. The comparable drawing for the 0914 will be the drawing labeled COVER with a part # of 0925.

You questioned if the 3 cover to base were the same on the 0914 as on the 0915. The 0914 also uses 3 snap latches. The 0914 latches have been re-engineered to increase their strength and to increase their tamper resistance.

All other aspects of the 0914 will be the same as that of the 0915, it will use the type 200 ionization chamber outlined in our current licence.

You also requested information relating to the point of purchase packaging for the model 0914. The information will be printed on the bottom flap of the retail package and will contain the following text:

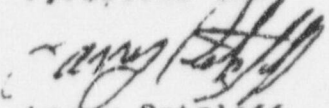
"This product is designed to detect products of combustion using the ionization technique. It contains 0.9 microcurie of Americium 241, a radioactive material. Distributed under U.S. NRC Licence No. 12-16856-01E. Manufactured in compliance with the U.S. NARC safety criteria in 10 CFR 32.27. The purchaser is exempt from any regulatory requirements."

*Plutonium 238
calibration
purpose?*

The detector label will contain the following information:
Contains radioactive material. This device contains 0.9
microcurie of americium 241. This alarm is distributed under
U.S. NRC licence No. 12-16856-01E.

If you need additional information for this project please
call me.

Sincerely;
Fyrnetics Inc.


Larry Ratzlaff
Product Engineer

cc Tom Russo, JoAnne Sha

April 11, 1996

FYRNETICS INC.

Chris Brown
U.S. NRC
Mail Stop TW8K7
Washington D.C. 20555

Subject: Addition of new smoke alarm model to current licence
12-16856-01E control # 021785

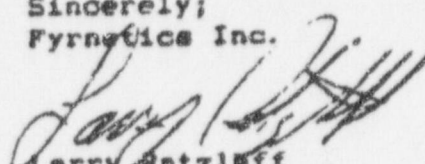
Dear Mr. Brown;

In our phone conversation on 4/11/96 you mentioned that you could not find the type 200 chamber drawings for our model 0915 smoke alarm in the NRC file, and that you needed these drawings in order to complete the current project.

Enclosed is the information for the type 200 chamber.

If you need additional information for this project please call me.

Sincerely;
Fyrnetics Inc.


Larry Ratzliff
Product Engineer

cc Tom Russo, JoAnne Sha

1055 Stevenson Court, Suite 102-W • Roselle, Illinois 60172 • (708) 893-4592 • Fax (708) 893-9967

761018-0167 1p 4/13/96

December 4, 1991

FYRNETICS INC.

Susan Green
Mail Stop 683
U.S. NRC Division of Industrial and Medical Safety, NMSS
Washington D.C.

Regarding: Amendment to NRC Licence No. 12-16856-01E
Control No. 121188

Dear Ms. Green

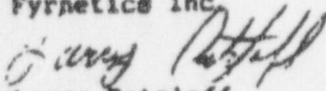
In our phone conversation of 12/4/91 you stated that there were no drawings included in the amendment application. I don't know what happened to them, they must have been misplaced somewhere. Our records show that they were included with the application.

Enclosed is a copy of the original application documentation and the correspondence thus far. All the drawings are included.

I would appreciate anything you can do to keep this application moving. We have a new smoke detector line we intended to release on 1/1/92 and need the licence amended to do so.

Thanks for your assistance on this matter. If you need to contact us for more information you can do so. My phone number is 1-708-742-0282.

Sincerely;
Fyrnetics Inc.


Larry Ratzlaff
Product Engineer.

~~9802120238~~ 980206
PDR RC *
SSD PDR

9802120238